

Figure 2

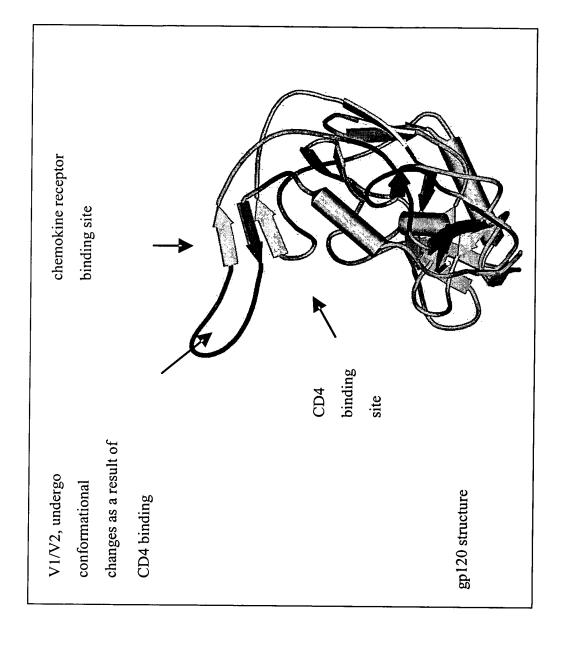


Figure 3

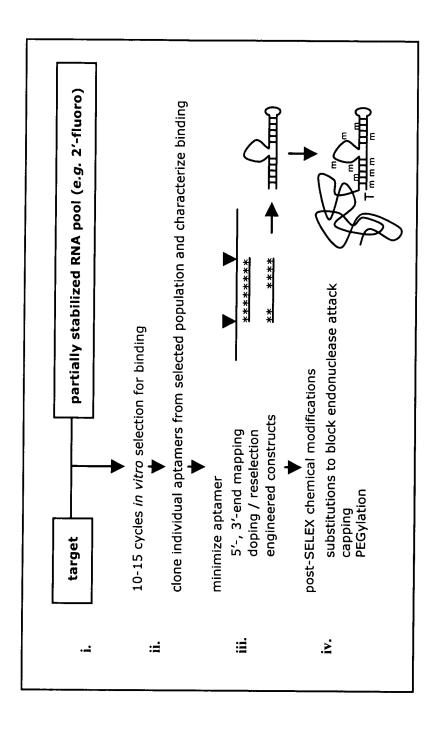


Figure 4

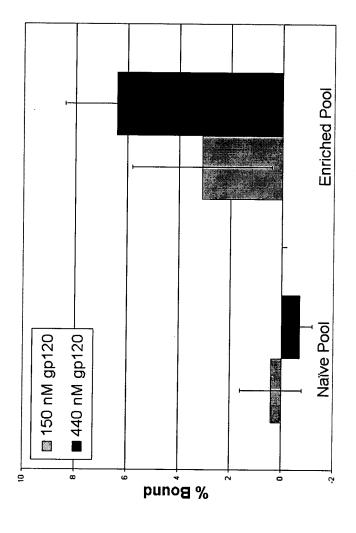


Figure 5

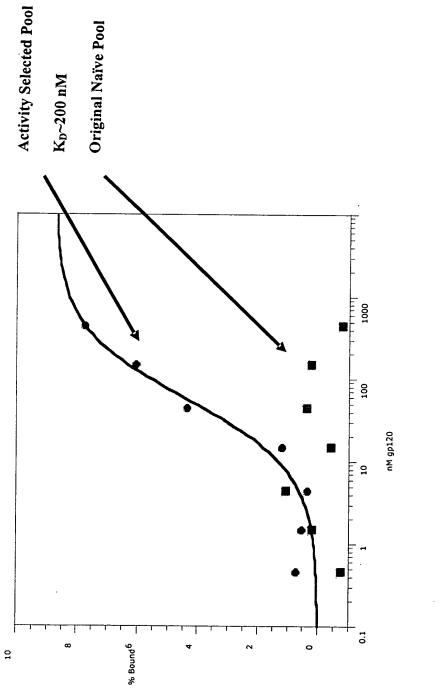
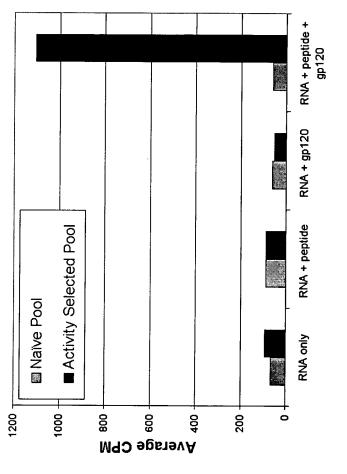
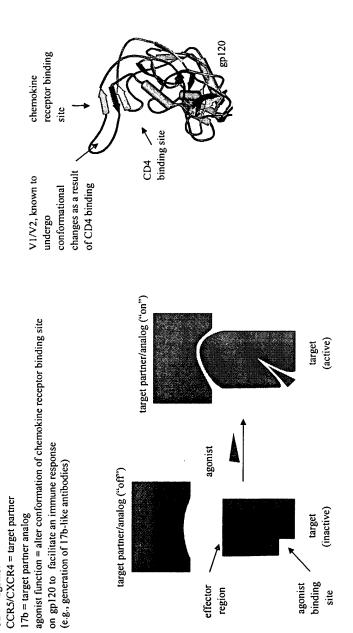


Figure 6



Tigure 7

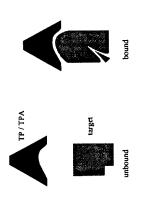


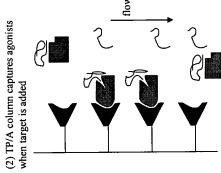
gp120 = targetCD4 = agonist

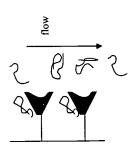
Figure 8

Figure 9









(1) pre-column captures TP/A binding species

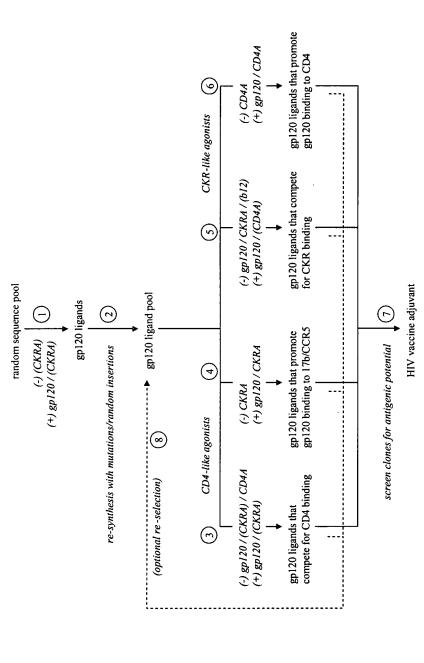
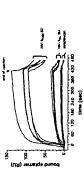


Figure 11



Isolate clones, assay for binding

GGGAGACAAGAAUAAACGCUCAACCGAAGCGCGACGACGACGUCAAUUUAUCAACCUUCGACAGGAGGCUCACAACAGGC (SEQ ID NO: 227)

Truncation analysis to define 5:- and 3:-ends

Sequence clones

AUAAACGCUCAACCGAAGCGCGACGACUAGACGUCAAUUUAU (SEQ ID NO: 228)

Define structure by synthesis of variants or in vitro phylogenetic methods

1 6.6 2 "eg gauaaa 6.6 3 jc c cù à ụ ự ma 6.6 6 8

(SEQ ID NO: 226)

GGACACAUACUCUACA-N20-gggauaaacgcucaacgcucaacggacgacuagacgucaauuuaucaaccuucga-N20-UUAACCCAGCACGCCUCGUA (SEQ ID NO: 229) (SEQ ID NO: 230) (SEQ ID NO: 231)

Chemically synthesize diverse pool based on aptamer structure

A.C.G.U: specified nucleotide (U T for DNA synthesis)
N: equal proportions of A.C.G.U
a.c.g.u: 85% specified nucleotide, 5% of each other nucleotide

Append random sequence tags to existing aptamers by PCR or ligation

PCR N₂₀ Instruction digestion ligation ligation

Figure 12